

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 01 Lindsey Slough	Left	6.97

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/9/2019 - 4/9/2019			
DWR Inspector	David Julian			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2060_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 2060 has the O&M Manual on file.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2060_01_f_2014_7				
Comment Code					
Inspector Comment					
RD 2060 has emergency supplies on hand.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2060_01_s_2012_12				
Comment Code					
Inspector Comment					
RD 2060 has trained staff for a flood fight.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.01	Rating **	U	Issue No.	17
LM End	5.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247263 °	38.263303 °
				-121.696472 °	-121.771737 °
DWR ID	DWR_RD2060_01_s_2019_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_RD2060_241_17_20190409_00073.jpg



View looking upstream at annual vegetation on the landside slope (Spring 2019).

LM Start	0.01	Rating **	U	Issue No.	35
LM End	5.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247262 °	38.263303 °
				-121.696472 °	-121.771737 °
DWR ID	DWR_RD2060_01_s_2019_35				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_RD2060_241_35_20190409_00074.jpg



View looking upstream at annual vegetation on the waterside slope (Spring 2019).

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.40	Rating **	M	Issue No.	5
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.247894 °	38.247911 °
				-121.703492 °	-121.703539 °
DWR ID	DWR_RD2060_01_f _ 2017_5				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.					
Site ID No:358					
Site Designation:LMA-185					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Small erosion into bank.					

Photo 1 of 6 : SP_2019_RD2060_241_5_20190311_00001.jpg



Photo 2 of 6 : SP_2019_RD2060_241_5_20190311_00002.jpg



LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.40	Rating **	M	Issue No.	5 (cont)	
LM End	0.40	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.247894 °		38.247911 °
				-121.703492 °		-121.703539 °
DWR ID	DWR_RD2060_01_f _ 2017_5					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.						
Site ID No:358						
Site Designation:LMA-185						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Small erosion into bank.						

LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS

Photo 3 of 6 : SP_2019_RD2060_241_5_20190311_00003.jpg

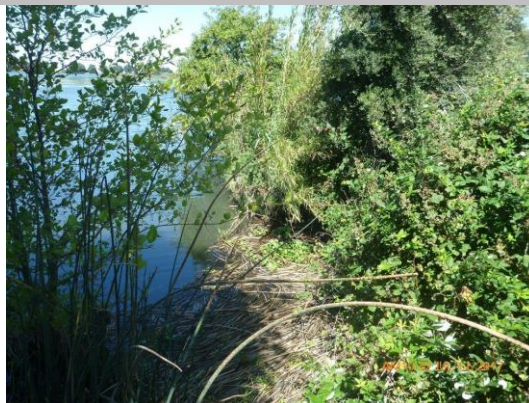


Photo 4 of 6 : SP_2019_RD2060_241_5_20190311_00004.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

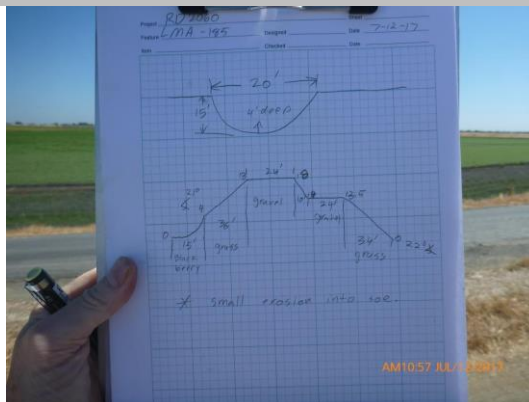
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.40	Rating **	M	Issue No.	5 (cont)	
LM End	0.40	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.247894 °		38.247911 °
				-121.703492 °		-121.703539 °
DWR ID	DWR_RD2060_01_f _ 2017_5					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.						
Site ID No:358						
Site Designation:LMA-185						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Small erosion into bank.						

Photo 5 of 6 : SP_2019_RD2060_241_5_20190311_00005.jpg



Photo 6 of 6 : SP_2019_RD2060_241_5_20190311_00006.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.41	Rating **	M	Issue No.	8
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.248036 °	38.248017 °
				-121.703539 °	-121.703789 °
DWR ID	DWR_RD2060_01_f_2017_8				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Existing rip rap appears to have been pulled off in this section.

Site ID No: 359

Site Designation: LMA-186

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/12/2017

Notes: Site had riprap but is eroded away. Minor erosion in toe of levee.

LM Start	0.41	Rating **	M	Issue No.	8 (cont)
LM End	0.42	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2060_241_8_20190311_00007.jpg



Photo 2 of 3 : SP_2019_RD2060_241_8_20190311_00008.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.41	Rating **	M	Issue No.	8 (cont)	
LM End	0.42	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.248036 °	38.248017 °	
				-121.703539 °	-121.703789 °	
DWR ID	DWR_RD2060_01_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Existing rip rap appears to have been pulled off in this section.						
Site ID No:359						
Site Designation:LMA-186						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Site had riprap but is eroded away. Minor erosion in toe of levee.						

Photo 3 of 3 : SP_2019_RD2060_241_8_20190311_00009.jpg



LM Start	0.75	Rating **	M	Issue No.	9
LM End	0.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.249314 °	38.249400 °
				-121.709461 °	-121.709608 °
DWR ID	DWR_RD2060_01_f_2017_9				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Erosion is concentrated near the waterline. Existing rip rap appears to have been pulled off in this section.					
Site ID No:360					
Site Designation:LMA-187					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Erosion looks old but has progressed this year.					

Photo 1 of 3 : SP_2019_RD2060_241_9_20190311_00010.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

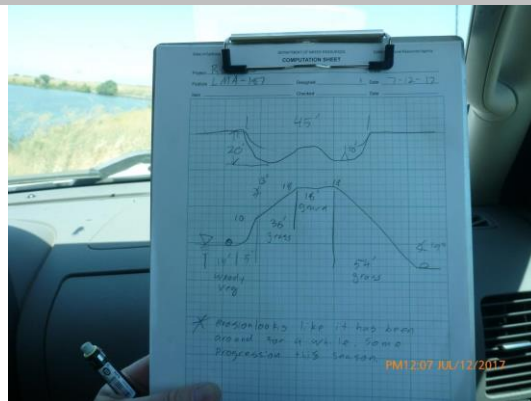
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.75	Rating **	M	Issue No.	9 (cont)
LM End	0.76	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.249314 °	38.249400 °	
			-121.709461 °	-121.709608 °	
DWR ID	DWR_RD2060_01_f_2017_9				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Erosion is concentrated near the waterline. Existing rip rap appears to have been pulled off in this section.</p> <p>Site ID No: 360</p> <p>Site Designation: LMA-187</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/12/2017</p> <p>Notes: Erosion looks old but has progressed this year.</p>					

Photo 2 of 3 : SP_2019_RD2060_241_9_20190311_00011.jpg



Photo 3 of 3 : SP_2019_RD2060_241_9_20190311_00012.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.92	Rating **	M	Issue No.	10
LM End	0.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250875 °	38.250953 °
				-121.711942 °	-121.712078 °
DWR ID	DWR_RD2060_01 f _ 2018_10				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Sloughing commences approximately halfway down the water side slope.

Site ID No: 361

Site Designation: LMA-188

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/12/2017

Notes: Minor sloughing, mostly riprap has moved down the slope and into channel.

LM Start	0.92	Rating **	M	Issue No.	10 (cont)
LM End	0.93	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2019_RD2060_241_10_20190311_00013.jpg



Photo 2 of 4 : SP_2019_RD2060_241_10_20190311_00014.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	0.92	Rating **	M	Issue No.	10 (cont)
LM End	0.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250875 °	38.250953 °
				-121.711942 °	-121.712078 °
DWR ID	DWR_RD2060_01_f_2018_10				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing commences approximately halfway down the water side slope.					
Site ID No:361					
Site Designation:LMA-188					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Minor sloughing, mostly riprap has moved down the slope and into channel.					

Photo 3 of 4 : SP_2019_RD2060_241_10_20190311_00015.jpg



Photo 4 of 4 : SP_2019_RD2060_241_10_20190311_00016.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.04	Rating **	M	Issue No.	15
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251058 °	38.250872 °
				-121.714050 °	-121.714792 °
DWR ID	DWR_RD2060_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description:Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline. Site ID No:362 Site Designation:LMA-189 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017 Notes: Erosion due to lack of revetment. Erosion ends at riprap downstream. Vertical cut at summer wse.					

Photo 1 of 3 : SP_2019_RD2060_241_15_20190311_00017.jpg



Photo 2 of 3 : SP_2019_RD2060_241_15_20190311_00018.jpg



LM Start	1.04	Rating **	M	Issue No.	15 (cont)
LM End	1.08	Issue Type +	Ma	Location *	WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.04	Rating **	M	Issue No.	15 (cont)
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251058 °	38.250872 °
				-121.714050 °	-121.714792 °
DWR ID	DWR_RD2060_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline.					
Site ID No:362					
Site Designation:LMA-189					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Erosion due to lack of revetment. Erosion ends at riprap downstream. Vertical cut at summer wse.					

Photo 3 of 3 : SP_2019_RD2060_241_15_20190311_00019.jpg



LM Start	1.09	Rating **	M	Issue No.	16
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250844 °	38.250833 °
				-121.714944 °	-121.714994 °
DWR ID	DWR_RD2060_01_f_2017_16				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description:Erosion commences approximately halfway down the water side slope extending to the toe. Site ID No:363 Site Designation:LMA-190 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017 Notes: Small erosion up to high water line. Cuts into slope with 6' vertical cut.					

Photo 1 of 3 : SP_2019_RD2060_241_16_20190311_00020.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.09	Rating **	M	Issue No.	16 (cont)
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250844 °	38.250833 °
				-121.714944 °	-121.714994 °
DWR ID	DWR_RD2060_01_f_2017_16				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe.					
Site ID No:363					
Site Designation:LMA-190					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Small erosion up to high water line. Cuts into slope with 6' vertical cut.					

Photo 2 of 3 : SP_2019_RD2060_241_16_20190311_00021.jpg



Photo 3 of 3 : SP_2019_RD2060_241_16_20190311_00022.jpg



LM Start	1.09	Rating **	M	Issue No.	16 (cont)
LM End	1.10	Issue Type +	Ma	Location *	WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.39	Rating **	A/W	Issue No.	20
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251886 °	38.252619 °
				-121.719933 °	-121.722842 °
DWR ID	DWR_RD2060_01_f_2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe.					
Site ID No:365					
Site Designation:LMA-192					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/12/2017					
Notes: Several deep narrow cuts into levee, but mostly minor erosion at highwater line.					

Photo 1 of 3 : SP_2019_RD2060_241_20_20190311_00023.jpg



Photo 2 of 3 : SP_2019_RD2060_241_20_20190311_00024.jpg



LM Start	1.39	Rating **	A/W	Issue No.	20 (cont)
LM End	1.56	Issue Type +	Ma	Location *	WS

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.39	Rating **	A/W	Issue No.	20 (cont)
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251886 °	38.252619 °
				-121.719933 °	-121.722842 °
DWR ID	DWR_RD2060_01_f_2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe.					
Site ID No:365					
Site Designation:LMA-192					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/12/2017					
Notes: Several deep narrow cuts into levee, but mostly minor erosion at highwater line.					

Photo 3 of 3 : SP_2019_RD2060_241_20_20190311_00025.jpg



LM Start	1.43	Rating **	M	Issue No.	6
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.251910 °	38.252605 °
				-121.720620 °	-121.722924 °
DWR ID	DWR_RD2060_01_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: LDS 1.7 L					
Status: Eroding New					
2017 Field Notes: Soil is boulders and sand. Multiple slumping sections.					
Site History:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.45	Rating **	A/W	Issue No.	11
LM End	1.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252013 °	38.252013 °
				-121.720945 °	-121.720945 °
DWR ID	DWR_RD2060_01_s_2017_11				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

LM Start	1.46	Rating **	A/W	Issue No.	13
LM End	1.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252038 °	38.252070 °
				-121.721212 °	-121.721440 °
DWR ID	DWR_RD2060_01_s_2017_13				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

LM Start	1.49	Rating **	A/W	Issue No.	14
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252130 °	38.252130 °
				-121.721637 °	-121.721637 °
DWR ID	DWR_RD2060_01_s_2017_14				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.81	Rating **	A/W	Issue No.	21
LM End	1.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.255972 °	38.256247 °
				-121.724197 °	-121.724464 °
DWR ID	DWR_RD2060_01 f _ 2017_21				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred due to deep erosion.

Site ID No: 366

Site Designation: LMA-193

Repair Type: Erosion

Rating: Serious

Field Date: 7/12/2017

Notes: Erosion extends halfway into the slope.

LM Start	1.81	Rating **	A/W	Issue No.	21 (cont)
LM End	1.84	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2060_241_21_20190311_00026.jpg



Photo 2 of 3 : SP_2019_RD2060_241_21_20190311_00027.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Page 18 of 42

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	1.90	Rating **	M	Issue No.	22 (cont)
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.257208 °	38.257842 °
				-121.724619 °	-121.724694 °
DWR ID	DWR_RD2060_01_f_2017_22				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred.
Site ID No: 367

Site Designation: LMA-194

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/12/2017

Notes: Minor cracking observed below the hinge point and minor erosion at levee toe.

LM Start	1.90	Rating **	M	Issue No.	22 (cont)
LM End	1.95	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2019_RD2060_241_22_20190311_00030.jpg



Photo 3 of 3 : SP_2019_RD2060_241_22_20190311_00031.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	2.10	Rating **	A/W	Issue No.	23
LM End	2.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.259317 °	38.259258 °
				-121.726314 °	-121.726939 °
DWR ID	DWR_RD2060_01_f _ 2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the rip rap.					
Site ID No:368					
Site Designation:LMA-195					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/13/2017					
Notes: Erosion appears to be previously repaired, but has failed again.					

Photo 1 of 3 : SP_2019_RD2060_241_23_20190311_00032.jpg



LM Start	2.10	Rating **	A/W	Issue No.	23 (cont)
LM End	2.13	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_241_23_20190311_00033.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Page 21 of 42

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	2.57	Rating **	M	Issue No.	24 (cont)
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.257467 °	38.257286 °
				-121.734153 °	-121.734683 °
DWR ID	DWR_RD2060_01_f_2017_24				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope. Part of the levee has sloughed down toward the waterline where further erosion occurs.					
Site ID No:369					
Site Designation:LMA-196					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Levee slope is concave due slumping. Erosion at waterline.					

Photo 2 of 3 : SP_2019_RD2060_241_24_20190311_00036.jpg



Photo 3 of 3 : SP_2019_RD2060_241_24_20190311_00037.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.07	Rating **	A/W	Issue No.	25
LM End	3.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260772 °	38.260569 °
				-121.740817 °	-121.741194 °
DWR ID	DWR_RD2060_01_f_2017_25				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion occurs near the waterline. Part of the levee has sloughed down toward the waterline due to erosion.					
Site ID No:370					
Site Designation:LMA-197					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/13/2017					
Notes: Large erosion halfway into levee. Horizontal cracking on slope almost 24"deep.					

Photo 1 of 3 : SP_2019_RD2060_241_25_20190311_00038.jpg



Photo 2 of 3 : SP_2019_RD2060_241_25_20190311_00039.jpg



* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 2060 Hastings

A photograph showing a field site. In the background, a white pickup truck is parked on a grassy slope. Two people are standing near the truck. The foreground is dominated by dense, green, low-lying vegetation. To the right, there is a body of water, possibly a pond or a small lake, with some trees and bushes along its edge. The sky is clear and blue. A timestamp in orange text at the bottom right reads "MM/25/00 12:32:00".A photograph showing a riverbank with dense green vegetation and white flowers in the foreground. The river flows towards a line of trees under a clear sky. The date '08/24/2013' is visible in the bottom right corner.Page 24 of 42

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.17	Rating **	M	Issue No.	26 (cont)	
LM End	3.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.259925 °	38.259903 °	
				-121.742236 °	-121.742281 °	
DWR ID	DWR_RD2060_01_f_2017_26					
Comment Code						
Inspector Comment						
Levee Evaluation Comments Description:Erosion occurs near the waterline. Site ID No:371 Site Designation:LMA-198 Repair Type: Erosion Rating:Area of Concern Field Date:7/13/2017 Notes: Minor erosion with sloughing. Horizontal cracks 3.5' deep.						

Photo 2 of 3 : SP_2019_RD2060_241_26_20190311_00042.jpg



Photo 3 of 3 : SP_2019_RD2060_241_26_20190311_00043.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.60	Rating **	M	Issue No.	27
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261469 °	38.261464 °
				-121.748389 °	-121.748442 °
DWR ID	DWR_RD2060_01_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:373					
Site Designation:LMA-200					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small erosion with a narrow deep cut. Heavy veg is protecting the slope.					

Photo 1 of 3 : SP_2019_RD2060_241_27_20190311_00044.jpg



Photo 2 of 3 : SP_2019_RD2060_241_27_20190311_00045.jpg



LM Start	3.60	Rating **	M	Issue No.	27 (cont)
LM End	3.61	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.60	Rating **	M	Issue No.	27 (cont)
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261469 °	38.261464 °
				-121.748389 °	-121.748442 °
DWR ID	DWR_RD2060_01_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:373					
Site Designation:LMA-200					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small erosion with a narrow deep cut. Heavy veg is protecting the slope.					

Photo 3 of 3 : SP_2019_RD2060_241_27_20190311_00046.jpg



LM Start	3.65	Rating **	M	Issue No.	40	
LM End	3.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.261314 °	38.261314 °	
				-121.749191 °	-121.749191 °	
DWR ID	22050					
Comment Code						
Inspector Comment						
FS_ID:41908 DS_ID:22050 EP_NO: 10119 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Updated record to reflect correct permit, historic levee log showed Permit No. 10119 correct Permit No. is 12784. Permit No. 10119 was issued for overhead lines. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner and verify status of crossing. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (8.625-inch pipeline installed across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]; 8.625-inch line referenced incorrectly as part of Permit No. 10119, 1975 - PG&E, correct Permit No. is 12784). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 1 of 2 : UCIP_SP_2019_41908_30541.jpg



WS view: gasoline sign board on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.65	Rating **	M	Issue No.	40 (cont)	
LM End	3.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.261314 °	38.261314 °	
				-121.749191 °	-121.749191 °	
DWR ID	22050					
Comment Code						
Inspector Comment						
FS_ID:41908 DS_ID:22050 EP_NO: 10119 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Updated record to reflect correct permit, historic levee log showed Permit No. 10119 correct Permit No. is 12784. Permit No. 10119 was issued for overhead lines. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner and verify status of crossing. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (8.625-inch pipeline installed across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]; 8.625-inch line referenced incorrectly as part of Permit No. 10119, 1975 - PG&E, correct Permit No. is 12784). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 2 of 2 : UCIP_SP_2019_41908_30540.jpg



LS view: gasline indicator across the road from levee toe.

LM Start	3.67	Rating **	M	Issue No.	28
LM End	3.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261181 °	38.261167 °
				-121.749542 °	-121.749592 °
DWR ID	DWR_RD2060_01_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion is concentrated near the water line.					
Site ID No:374					
Site Designation:LMA-201					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small narrow and deep cut. May have been caused by a collapsed beaver den.					

Photo 1 of 3 : SP_2019_RD2060_241_28_20190311_00047.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.67	Rating **	M	Issue No.	28 (cont)
LM End	3.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261181 °	38.261167 °
				-121.749542 °	-121.749592 °
DWR ID	DWR_RD2060_01_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion is concentrated near the water line.					
Site ID No:374					
Site Designation:LMA-201					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small narrow and deep cut. May have been caused by a collapsed beaver den.					

Photo 2 of 3 : SP_2019_RD2060_241_28_20190311_00048.jpg



Photo 3 of 3 : SP_2019_RD2060_241_28_20190311_00049.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.76	Rating **	M	Issue No.	41
LM End	3.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.261211 °	38.261211 °
				-121.751117 °	-121.751117 °
DWR ID	22045				
Comment Code					
Inspector Comment					
FS_ID:41878 DS_ID:22045 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Based on permit number 12784 review, 8.625-inch line should cross at RD2060U1 CLM 3.756 however, the markers for this crossing show the line crosses at RD2060U1 CLM 3.648 instead. Need to request line alignment for this crossing and update record. This could be a duplicate record of dsid 22050. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner to determine status and install signs if appropriate. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013					

LM Start	3.76	Rating **	M	Issue No.	41 (cont)
LM End	3.76	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_41878_30549.jpg



LS view: a gas plant and gasline indicator found on LS.

Photo 2 of 3 : UCIP_SP_2019_41878_30548.jpg



LS view: closer view of gasline indicator found on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	3.76	Rating **	M	Issue No.	41 (cont)	
LM End	3.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.261211 °	38.261211 °	
				-121.751117 °	-121.751117 °	
DWR ID	22045					
Comment Code						
Inspector Comment						
FS_ID:41878 DS_ID:22045 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Based on permit number 12784 review, 8.625-inch line should cross at RD2060U1 CLM 3.756 however, the markers for this crossing show the line crosses at RD2060U1 CLM 3.648 instead. Need to request line alignment for this crossing and update record. This could be a duplicate record of dsid 22050. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner to determine status and install signs if appropriate. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013						

Photo 3 of 3 : UCIP_SP_2019_41878_30547.jpg



WS view: no indicators found on WS.

LM Start	4.28	Rating **	A/W	Issue No.	29
LM End	4.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260992 °	38.261017 °
				-121.759806 °	-121.759847 °
DWR ID	DWR_RD2060_01_f_2017_29				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:376					
Site Designation:LMA-203					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Could not get to erosion due to dense veg. Possibly a deep narrow cut.					

Photo 1 of 3 : SP_2019_RD2060_241_29_20190311_00050.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.28	Rating **	A/W	Issue No.	29 (cont)
LM End	4.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260992 °	38.261017 °
				-121.759806 °	-121.759847 °
DWR ID	DWR_RD2060_01_f_2017_29				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:376					
Site Designation:LMA-203					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Could not get to erosion due to dense veg. Possibly a deep narrow cut.					

Photo 2 of 3 : SP_2019_RD2060_241_29_20190311_00051.jpg



Photo 3 of 3 : SP_2019_RD2060_241_29_20190311_00052.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.40	Rating **	M	Issue No.	30
LM End	4.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260850 °	38.260425 °
				-121.761875 °	-121.762861 °
DWR ID	DWR_RD2060_01_f_2017_30				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope.					
Site ID No:377					
Site Designation:LMA-204					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: large cut is 100' of 320' site. Large cut is 12' vertical and the rest is 6'.					

Photo 1 of 3 : SP_2019_RD2060_241_30_20190311_00053.jpg



LM Start	4.40	Rating **	M	Issue No.	30 (cont)
LM End	4.46	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_241_30_20190311_00054.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.40	Rating **	M	Issue No.	30 (cont)	
LM End	4.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.260850 °	38.260425 °	
				-121.761875 °	-121.762861 °	
DWR ID	DWR_RD2060_01_f_2017_30					
Comment Code						
Inspector Comment						
Levee Evaluation Comments Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope. Site ID No:377 Site Designation:LMA-204 Repair Type: Erosion Rating:Area of Concern Field Date:7/13/2017 Notes: large cut is 100' of 320' site. Large cut is 12' vertical and the rest is 6'.						

Photo 3 of 3 : SP_2019_RD2060_241_30_20190311_00055.jpg



LM Start	4.46	Rating **	M	Issue No.	42
LM End	4.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260414 °	38.260414 °
				-121.762943 °	-121.762943 °
DWR ID	22051				
Comment Code					
Inspector Comment					
FS_ID:41988 DS_ID:22051 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation on both levee slopes. FIELD_STRUCT_DESC: *ABANDONED* 24-inch pipe of an unknown material or purpose through the levee, 17 feet below the crown. Inoperable closed slide gate on the waterside (WS) end. (Hastings Farms. Not on encroachment list). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.50	Rating **	A/W	Issue No.	31
LM End	4.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260150 °	38.259939 °
				-121.763556 °	-121.764064 °
DWR ID	DWR_RD2060_01_f_2017_31				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope. It has resulted in some sloughing.					
Site ID No:378					
Site Designation:LMA-205					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Deep, wide, vertical cut into slope almost 1/2 way into sope.					

Photo 1 of 3 : SP_2019_RD2060_241_31_20190311_00056.jpg



LM Start	4.50	Rating **	A/W	Issue No.	31 (cont)
LM End	4.53	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_241_31_20190311_00057.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.50	Rating **	A/W	Issue No.	31 (cont)
LM End	4.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260150 °	38.259939 °
				-121.763556 °	-121.764064 °
DWR ID	DWR_RD2060_01_f_2017_31				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope. It has resulted in some sloughing.					
Site ID No:378					
Site Designation:LMA-205					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Deep, wide, vertical cut into slope almost 1/2 way into sope.					

Photo 3 of 3 : SP_2019_RD2060_241_31_20190311_00058.jpg



LM Start	4.80	Rating **	A/W	Issue No.	32
LM End	4.88	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260714 °	38.261808 °
				-121.767972 °	-121.768536 °
DWR ID	DWR_RD2060_01_f_2017_32				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope towards the toe.					
Site ID No:379					
Site Designation:LMA-206					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Several erosions with slumping. Fresh soil indicates active erosion this season. Adjacent slope has riprap. Riprap should be extended along this stretch.					

Photo 1 of 3 : SP_2019_RD2060_241_32_20190311_00059.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.80	Rating **	A/W	Issue No.	32 (cont)	
LM End	4.88	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.260714 °	38.261808 °	
				-121.767972 °	-121.768536 °	
DWR ID	DWR_RD2060_01_f_2017_32					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope towards the toe.						
Site ID No:379						
Site Designation:LMA-206						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Several erosions with slumping. Fresh soil indicates active erosion this season. Adjacent slope has riprap. Riprap should be extended along this stretch.						

Photo 2 of 3 : SP_2019_RD2060_241_32_20190311_00060.jpg



LM Start	4.80	Rating **	A/W	Issue No.	32 (cont)
LM End	4.88	Issue Type +	Ma	Location *	

Photo 3 of 3 : SP_2019_RD2060_241_32_20190311_00061.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.92	Rating **	M	Issue No.	33
LM End	4.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262128 °	38.262128 °
				-121.769175 °	-121.769175 °
DWR ID	DWR_RD2060_01_f _ 2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.					
Site ID No:380					
Site Designation:LMA-207					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Reduced length of site from 275 to 62. No widespread erosion, just 2 small erosions upstream from adjacent riprap.					

A photograph showing a riverbank. On the left, there is a dense thicket of dry, yellowish-brown grass and some green plants. A large, dark green tree stands prominently on the bank. To the right, a calm body of water reflects the sky. The sky is clear and blue. In the bottom right corner, there is a date and time stamp: '08/10/19 14:17:20'.

A photograph showing a rocky bank with sparse vegetation and tall grasses, adjacent to a body of water. The image is oriented horizontally on the page.

LM Start	4.92	Rating **	M	Issue No.	33 (cont)
LM End	4.92	Issue Type +	Ma	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	4.92	Rating **	M	Issue No.	33 (cont)	
LM End	4.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.262128 °	38.262128 °	
				-121.769175 °	-121.769175 °	
DWR ID	DWR_RD2060_01_f_2017_33					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.						
Site ID No:380						
Site Designation:LMA-207						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/17/2017						
Notes: Reduced length of site from 275 to 62. No widespread erosion, just 2 small erosions upstream from adjacent riprap.						

Photo 3 of 3 : SP_2019_RD2060_241_33_20190311_00064.jpg



LM Start	5.00	Rating **	M	Issue No.	34
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262636 °	38.262658 °
				-121.770503 °	-121.770547 °
DWR ID	DWR_RD2060_01_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.					
Site ID No:381					
Site Designation:LMA-208					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Extended site from 15' to 75' to include LMA-209. Small erosions will become 1 site next high water due to sloughing between them.					

Photo 1 of 3 : SP_2019_RD2060_241_34_20190311_00065.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	5.00	Rating **	M	Issue No.	34 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.262636 °	38.262658 °	
				-121.770503 °	-121.770547 °	
DWR ID	DWR_RD2060_01_f_2017_34					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.						
Site ID No:381						
Site Designation:LMA-208						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/17/2017						
Notes: Extended site from 15' to 75' to include LMA-209. Small erosions will become 1 site next high water due to sloughing between them.						

Photo 2 of 3 : SP_2019_RD2060_241_34_20190311_00066.jpg



Photo 3 of 3 : SP_2019_RD2060_241_34_20190311_00067.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	5.21	Rating **	C	Issue No.	18
LM End	6.90	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261717 °	38.274012 °
				-121.772152 °	-121.795407 °
DWR ID	DWR_RD2060_01_s_2017_18				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	5.67	Rating **	C	Issue No.	19
LM End	5.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.263257 °	38.263257 °
				-121.779758 °	-121.779758 °
DWR ID	DWR_RD2060_01_s_2017_19				
Comment Code					
Inspector Comment					
Repair or replace the cross gate.					

No Photos

LM Start	6.63	Rating **	C	Issue No.	37
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.270878 °	38.271845 °
				-121.793168 °	-121.793498 °
DWR ID	DWR_RD2060_01_f_2018_37				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/09/2019 04/09/2019	David Julian

LM Start	6.72	Rating **	C	Issue No.	38
LM End	6.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.271993 °	38.272957 °
				-121.793697 °	-121.794982 °
DWR ID	DWR_RD2060_01_f_2018_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	6.88	Rating **	C	Issue No.	39
LM End	6.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.273787 °	38.273787 °
				-121.795492 °	-121.795492 °
DWR ID	DWR_RD2060_01_f_2018_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 02 Ulatis Creek	Right	3.64

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/9/2019 - 4/9/2019			
DWR Inspector	David Julian			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	0.00	Rating **	M	Issue No.	8	
LM End	0.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.289474 °	38.289474 °	
				-121.775914 °	-121.775914 °	
DWR ID	22059					
Comment Code						
Inspector Comment						
FS_ID:46769 DS_ID:22059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: - Abandoned pump structure in stream needs proper abandonment- Not accessible due to wired fence FIELD_STRUCT_DESC: *ABANDONED* Pump structure in stream. Concrete distribution box on the landside (LS) slope. Not accessible due to a wire fence. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

LM Start	0.00	Rating **	M	Issue No.	8 (cont)
LM End	0.00	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2019_46769_31088.jpg



WS view: abandoned pump support in stream/channel. Not accessible due to vegetation.

Photo 2 of 2 : UCIP_SP_2019_46769_31087.jpg



LS view: abandoned concrete distribution box. Not accessible due to wire fence.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	0.12	Rating **	M	Issue No.	2
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.276351 °	38.285819 °
				-121.795922 °	-121.776942 °
DWR ID	DWR_RD2060_02_s_2017_2				
Comment Code					
FE : Fence					
Inspector Comment					
This fence has no permit.					

Photo 1 of 1 : SP_2019_RD2060_242_2_20190311_00001.jpg



Barbed wire fence on waterside has no permit.

LM Start	0.14	Rating **	M	Issue No.	5
LM End	1.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.276614 °	38.285270 °
				-121.795990 °	-121.777076 °
DWR ID	DWR_RD2060_02_s_2019_5				
Comment Code					
FE : Fence					
Inspector Comment					
Fence has no permit					

Photo 1 of 1 : SP_2019_RD2060_242_5_20190409_00012.jpg



View looking upstream at fence at the landside toe (Spring 2019).

LM Start	0.74	Rating **	M	Issue No.	7
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285189 °	38.290464 °
				-121.795415 °	-121.774855 °
DWR ID	DWR_RD2060_02_f_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain vegetation on water side slope					

Photo 1 of 1 : SP_2019_RD2060_242_7_20190311_00003.jpg



View of vegetation on water side slope (October 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	0.74	Rating **	M	Issue No.	6
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285188 °	38.285143 °
				-121.795334 °	-121.777128 °
DWR ID	DWR_RD2060_02_f_2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain vegetation on land side slope					

Photo 1 of 1 : SP_2019_RD2060_242_6_20190311_00002.jpg



View of vegetation on land side slope (October 2018)

LM Start	1.74	Rating **	M	Issue No.	9	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.285219 °		38.285219 °
				-121.777085 °		-121.777085 °
DWR ID	22056					
Comment Code						
Inspector Comment						
FS_ID:18386 DS_ID:22056 EP_NO: 10148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: U-type concrete headwall on LS. Not accessible due to fence.Vegetation is partially blocking inlet & outlet pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 1 of 3 : UCIP_SP_2019_18386_30873.jpg



WS view: overview of CMP from levee.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	1.74	Rating **	M	Issue No.	9 (cont)	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.285219 °	38.285219 °	
				-121.777085 °	-121.777085 °	
DWR ID	22056					
Comment Code						
Inspector Comment						
FS_ID:18386 DS_ID:22056 EP_NO: 10148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: U-type concrete headwall on LS. Not accessible due to fence.Vegetation is partially blocking inlet & outlet pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

LM Start	1.74	Rating **	M	Issue No.	9 (cont)
LM End	1.74	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_18386_30872.jpg



WS view: CM pipe with flap gate. Not accessible. Vegetation is partially blocking outlet pipe.

Photo 3 of 3 : UCIP_SP_2019_18386_30874.jpg



LS view: CM pipe with U shaped concrete headwall. Not accessible. Vegetation is partially blocking inlet pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	2.15	Rating **	M	Issue No.	10	
LM End	2.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290440 °	38.290440 °	
				-121.774808 °	-121.774808 °	
DWR ID	22060					
Comment Code						
Inspector Comment						
FS_ID:41668 DS_ID:22060 EP_NO: 5927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 1 of 3 : UCIP_SP_2019_41668_31161.jpg



WS view: electrical box on pole and pump structure in background.

LM Start	2.15	Rating **	M	Issue No.	10 (cont)
LM End	2.15	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_41668_31160.jpg



WS view: pump on pile structure with stairs on bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/09/2019 04/09/2019	David Julian

LM Start	2.15	Rating **	M	Issue No.	10 (cont)	
LM End	2.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290440 °	38.290440 °	
				-121.774808 °	-121.774808 °	
DWR ID	22060					
Comment Code						
Inspector Comment						
FS_ID:41668 DS_ID:22060 EP_NO: 5927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 3 of 3 : UCIP_SP_2019_41668_31163.jpg



LS view: obstructed siphon breaker in steel riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 03 Cache Slough			Right	5.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/9/2019 - 4/9/2019			
DWR Inspector	David Julian			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.07	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296350 °	38.296302 °
				-121.747642 °	-121.747565 °
DWR ID	DWR_RD2060_03_s_2017_16				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing is occurring on the LS slope.					

Photo 1 of 2 : SP_2019_RD2060_243_16_20190311_00010.jpg



Looking down from the shoulder at the sloughing in the slope towards the irrigation ditch at toe.

LM Start	0.07	Rating **	M	Issue No.	16 (cont)
LM End	0.07	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2019_RD2060_243_16_20190311_00011.jpg



Standing on the slope looking upstream at the slough.

LM Start	0.10	Rating **	A/W	Issue No.	71
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296084 °	38.296084 °
				-121.747052 °	-121.747052 °
DWR ID	DWR_RD2060_03_s_2018_71				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor slump at toe likely due to cattle should be repaired.					

Photo 1 of 1 : SP_2019_RD2060_243_71_20190311_00079.jpg



Lower landside slope has slumped into ditch. Should be repaired.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.12	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.295919 °	38.295611 °
				-121.746700 °	-121.745742 °
DWR ID	DWR_RD2060_03_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing and seepage occurs near the land side toe.					
Site ID No:385					
Site Designation:LMA-212					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Moderate sloughing halfway down LS slope. Monitor for progression.					

Photo 1 of 3 : SP_2019_RD2060_243_13_20190311_00004.jpg



LM Start	0.12	Rating **	M	Issue No.	13 (cont)
LM End	0.18	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_243_13_20190311_00005.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.12	Rating **	M	Issue No.	13 (cont)
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.295919 °	38.295611 °
				-121.746700 °	-121.745742 °
DWR ID	DWR_RD2060_03_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing and seepage occurs near the land side toe.					
Site ID No:385					
Site Designation:LMA-212					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Moderate sloughing halfway down LS slope. Monitor for progression.					

Photo 3 of 3 : SP_2019_RD2060_243_13_20190311_00006.jpg



LM Start	0.15	Rating **	A/W	Issue No.	19
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.295738 °	38.295559 °
				-121.746293 °	-121.745583 °
DWR ID	DWR_RD2060_03_s_2017_19				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There are several signs of sloughing occuring on the slope.					

Photo 1 of 2 : SP_2019_RD2060_243_19_20190311_00014.jpg



Standing at levee mile 0.15 looking downstream from the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.64	Rating **	M	Issue No.	14 (cont)
LM End	0.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.292197 °	38.292208 °
				-121.739661 °	-121.739611 °
DWR ID	DWR_RD2060_03_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences near the edge of the crown and extends down the slope. Erosion has resulted in slippage into the waterside toe.					
Site ID No:386					
Site Designation:LMA-213					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes:					

Photo 2 of 3 : SP_2019_RD2060_243_14_20190311_00008.jpg



Photo 3 of 3 : SP_2019_RD2060_243_14_20190311_00009.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.67	Rating **	U	Issue No.	10
LM End	5.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292258 °	38.247370 °
				-121.739070 °	-121.696209 °
DWR ID	DWR_RD2060_03_s_2019_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_RD2060_243_10_20190409_00088.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

LM Start	0.67	Rating **	U	Issue No.	11
LM End	5.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292258 °	38.247370 °
				-121.739070 °	-121.696209 °
DWR ID	DWR_RD2060_03_s_2019_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_RD2060_243_11_20190409_00089.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.81	Rating **	M	Issue No.	15
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.291633 °	38.291606 °
				-121.736750 °	-121.736714 °
DWR ID	DWR_RD2060_03_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope. Erosion has resulted in slippage into the waterside toe.					
Site ID No:388					
Site Designation:LMA-215					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Narrow erosion on WS slope. Monitor for progression.					

No Photos

LM Start	0.90	Rating **	M	Issue No.	72
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735668 °	-121.735668 °
DWR ID	22067				
Comment Code					
Inspector Comment					
FS_ID:18727 DS_ID:22067 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seem abandoned.Not found- pump on LS. Needs more exploration. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced]. FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_SP_2019_18727_31317.jpg



Waterside view: levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.90	Rating **	M	Issue No.	72 (cont)	
LM End	0.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290684 °	38.290684 °	
				-121.735668 °	-121.735668 °	
DWR ID	22067					
Comment Code						
Inspector Comment						
FS_ID:18727 DS_ID:22067 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seem abandoned.Not found- pump on LS. Needs more exploration. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced]. FS Date: 8/15/2013						

Photo 2 of 2 : UCIP_SP_2019_18727_31316.jpg



Waterside view: levee slope and a steel pipe.

LM Start	0.90	Rating **	M	Issue No.	73
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735639 °	-121.735639 °
DWR ID	22063				
Comment Code					
Inspector Comment					
FS_ID:18726 DS_ID:22063 EP_NO: 6342 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky siphon breaker may need to be repaired. Dense vegetation on WS.Not found- gate valve on LS. FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_SP_2019_18726_31314.jpg



Landside view: pump, service pole, steel support structure, walkway, and pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	0.90	Rating **	M	Issue No.	73 (cont)	
LM End	0.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290684 °	38.290684 °	
				-121.735639 °	-121.735639 °	
DWR ID	22063					
Comment Code						
Inspector Comment						
FS_ID:18726 DS_ID:22063 EP_NO: 6342 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky siphon breaker may need to be repaired. Dense vegetation on WS.Not found- gate valve on LS. FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013						

LM Start	0.90	Rating **	M	Issue No.	73 (cont)
LM End	0.90	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_18726_31313.jpg



Landside view: pipe and pump on steel structure in drain ditch.

Photo 3 of 3 : UCIP_SP_2019_18726_31315.jpg



Waterside view: only leaky siphon breaker found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.12	Rating **	C	Issue No.	18
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.290558 °	38.290558 °
				-121.731580 °	-121.731580 °
DWR ID	DWR_RD2060_03_s_2017_18				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	1.21	Rating **	M	Issue No.	20
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.290511 °	38.290486 °
				-121.729867 °	-121.729603 °
DWR ID	DWR_RD2060_03_f_2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences 1/4 of the way down the slope with slippage towards the water side toe.					
Site ID No:390					
Site Designation:LMA-217					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Erosion halfway down WS slope. Monitor for progression.					

Photo 1 of 3 : SP_2019_RD2060_243_20_20190311_00016.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.21	Rating **	M	Issue No.	20 (cont)
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.290511 °	38.290486 °	
			-121.729867 °	-121.729603 °	
DWR ID	DWR_RD2060_03_f_2017_20				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences 1/4 of the way down the slope with slippage towards the water side toe.

Site ID No: 390

Site Designation: LMA-217

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/20/2017

Notes: Erosion halfway down WS slope. Monitor for progression.

LM Start	1.21	Rating **	M	Issue No.	20 (cont)
LM End	1.23	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_243_20_20190311_00017.jpg



Photo 3 of 3 : SP_2019_RD2060_243_20_20190311_00018.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.38	Rating **	M	Issue No.	21	
LM End	1.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.290067 °	38.289608 °	
				-121.726839 °	-121.726344 °	
DWR ID	DWR_RD2060_03_f_2017_21					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:MBK Delta Erosion Sites_6-29-2017						
Site ID No:482						
Site Designation:LMA-320						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/29/2017						
Notes:						

Photo 1 of 3 : SP_2019_RD2060_243_21_20190311_00019.jpg



Photo 2 of 3 : SP_2019_RD2060_243_21_20190311_00020.jpg



LM Start	1.38	Rating **	M	Issue No.	21 (cont)
LM End	1.42	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph of a grassy field with a body of water in the background and a power line tower visible on the right side. The field is covered in dry, yellowish-brown grass and some green plants. A body of water is visible in the background, and a power line tower is visible on the right side. The sky is clear and blue.Page 13 of 45

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.45	Rating **	M	Issue No.	22 (cont)	
LM End	1.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.289256 °	38.287689 °	
				-121.726050 °	-121.724658 °	
DWR ID	DWR_RD2060_03_f _ 2017_22					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe.						
Site ID No:392						
Site Designation:LMA-219						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/20/2017						
Notes: Moderate erosion present on WS slope. Monitor for progression.						

Photo 2 of 3 : SP_2019_RD2060_243_22_20190311_00023.jpg



Photo 3 of 3 : SP_2019_RD2060_243_22_20190311_00024.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.52	Rating **	A/W	Issue No.	7
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.288598 °	38.286051 °
				-121.725184 °	-121.722818 °
DWR ID	DWR_RD2060_03_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: CHS 23.6 R					
Status: Eroding					
2017 Field Notes: No observed changes.					
Site History: Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013 - Site extended both upstream and downstream to include new erosion pockets.					

Photo 1 of 1 : SP_2019_RD2060_243_7_20190311_00003.jpg



USACE 2013 Photo #1

LM Start	1.62	Rating **	A/W	Issue No.	23	
LM End	1.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.287336 °	38.287222 °	
				-121.724364 °	-121.724253 °	
DWR ID	DWR_RD2060_03_f_2017_23					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.						
Site ID No:393						
Site Designation:LMA-220						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/20/2017						
Notes: Moderate sloughing 8ft from WS crown. Erosion at high water mark.						

Photo 1 of 3 : SP_2019_RD2060_243_23_20190311_00025.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.62	Rating **	A/W	Issue No.	23 (cont)	
LM End	1.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.287336 °	38.287222 °	
				-121.724364 °	-121.724253 °	
DWR ID	DWR_RD2060_03_f _ 2017_23					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe. Existing rip rap has sloughed into the						
water side toe.						
Site ID No:393						
Site Designation:LMA-220						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/20/2017						
Notes: Moderate sloughing 8ft from WS crown. Erosion at high water						
mark.						

A photograph of a grassy hillside. The foreground is covered in dry, yellowish-brown grass. In the middle ground, there are several green, leafy plants growing. The background shows a clear blue sky and more greenery on the hillside. A date stamp '2010-07-08 10:40:20' is visible in the bottom right corner.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable AWW : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.65	Rating **	M	Issue No.	24
LM End	1.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.286953 °	38.285939 °
				-121.723958 °	-121.723061 °
DWR ID	DWR_RD2060_03_f_2017_24				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope. Existing rip rap has sloughed into the water side toe.					
Site ID No:394					
Site Designation:LMA-221					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Site includes LMA-218. Erosion halfway down slope. Monitor for progression.					

No Photos

LM Start	1.84	Rating **	M	Issue No.	25
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.284825 °	38.284467 °
				-121.721764 °	-121.720339 °
DWR ID	DWR_RD2060_03_f_2017_25				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and results in					
slippage into the waterside toe.					
Site ID No:395					
Site Designation:LMA-222					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Erosion halfway down slope. Monitor for progression.					

Photo 1 of 3 : SP_2019_RD2060_243_25_20190311_00028.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	1.84	Rating **	M	Issue No.	25 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.284825 °	38.284467 °	
				-121.721764 °	-121.720339 °	
DWR ID	DWR_RD2060_03_f _ 2017_25					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe.						
Site ID No:395						
Site Designation:LMA-222						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/20/2017						
Notes: Erosion halfway down slope. Monitor for progression.						

Photo 2 of 3 : SP_2019_RD2060_243_25_20190311_00029.jpg



Photo 3 of 3 : SP_2019_RD2060_243_25_20190311_00030.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.02	Rating **	A/W	Issue No.	5
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.284120 °	38.277633 °
				-121.718577 °	-121.711912 °
DWR ID	DWR_RD2060_03_f_2018_5				
Comment Code					
Inspector Comment					
2017 Site ID: CHS 22.9 R					
Status: Eroding					
2017 Field Notes: Sites 22.5, 22.6, 22.8, and 22.9 were combined into one long erosion site due to due erosion.					
Site History: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2008 - Small scour pockets and mid-slope wave wash. 2010 - Minor new erosion. 2011 - Site extended downstream and new erosion. 2013 - Pockets of erosion behind willows and extending into the levee toe. 2015 - Erosion pockets have increased in size. 2016 - Rock has been placed in some of the pockets.					

No Photos

LM Start	2.02	Rating **	A/W	Issue No.	6
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.284105 °	38.283302 °
				-121.718471 °	-121.717814 °
DWR ID	DWR_RD2060_03_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: CHS 23.0 R					
Status: Eroding					
2017 Field Notes: No observed changes.					
Site History: 2010 - Small maintenance site.					

Photo 1 of 1 : SP_2019_RD2060_243_6_20190311_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.02	Rating **	M	Issue No.	26
LM End	2.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.283914 °	38.283422 °
				-121.718614 °	-121.718206 °
DWR ID	DWR_RD2060_03_f_2017_26				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.					
Site ID No:396					
Site Designation:LMA-223					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion to high water line.					

Photo 1 of 3 : SP_2019_RD2060_243_26_20190311_00031.jpg



Photo 2 of 3 : SP_2019_RD2060_243_26_20190311_00032.jpg



LM Start	2.02	Rating **	M	Issue No.	26 (cont)
LM End	2.06	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.02	Rating **	M	Issue No.	26 (cont)	
LM End	2.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.283914 °	38.283422 °	
				-121.718614 °	-121.718206 °	
DWR ID	DWR_RD2060_03_f_2017_26					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.						
Site ID No:396						
Site Designation:LMA-223						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion to high water line.						

Photo 3 of 3 : SP_2019_RD2060_243_26_20190311_00033.jpg



LM Start	2.12	Rating **	A/W	Issue No.	27
LM End	2.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.282733 °	38.282403 °
				-121.717683 °	-121.717428 °
DWR ID	DWR_RD2060_03_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe.					
Site ID No:397					
Site Designation:LMA-224					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Benched erosion with large cracks on slope above. Light veg in erosion.					

Photo 1 of 3 : SP_2019_RD2060_243_27_20190311_00034.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

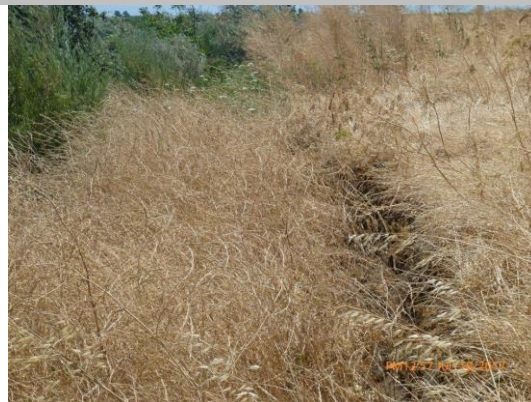
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.19	Rating **	A/W	Issue No.	28
LM End	2.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.281839 °	38.281486 °
				-121.716964 °	-121.716661 °
DWR ID	DWR_RD2060_03_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe.					
Site ID No:398					
Site Designation:LMA-225					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Erosion is near vertical with light veg. Existing rip rap to the left of site.					

Photo 1 of 3 : SP_2019_RD2060_243_28_20190311_00037.jpg



Photo 2 of 3 : SP_2019_RD2060_243_28_20190311_00038.jpg



LM Start	2.19	Rating **	A/W	Issue No.	28 (cont)
LM End	2.22	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

Photo 3 of 3 : SP_2019_RD2060_243_28_20190311_00039.jpg



Photo 1 of 3 : SP_2019_RD2060_243_29_20190311_00040.jpg



* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable AWW : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.36	Rating **	M	Issue No.	31
LM End	2.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.280208 °	38.279336 °
				-121.714853 °	-121.714172 °
DWR ID	DWR_RD2060_03_f _ 2017_31				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in slippage into the waterside toe.					
Site ID No:400					
Site Designation:LMA-227					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Steep cut but protected with heavy woody veg.					

Photo 1 of 3 : SP_2019_RD2060_243_31_20190311_00043.jpg



Photo 2 of 3 : SP_2019_RD2060_243_31_20190311_00044.jpg



LM Start	2.36	Rating **	M	Issue No.	31 (cont)
LM End	2.43	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph showing a coastal landscape. On the left is a body of water with some lily pads. A dense line of green shrubs separates the water from a grassy bank on the right. The bank is covered in dry, yellowish-brown grass and some green plants with white flowers. A date stamp '2007-05-18 09:00:00' is visible in the bottom right corner.Page 27 of 45

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.47	Rating **	M	Issue No.	32 (cont)
LM End	2.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.278794 °	38.278533 °
				-121.713703 °	-121.713453 °
DWR ID	DWR_RD2060_03_f _ 2017_32				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:401					
Site Designation:LMA-228					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion and sloughing. Heavy veg flanking both sides.					

Photo 2 of 3 : SP_2019_RD2060_243_32_20190311_00047.jpg



Photo 3 of 3 : SP_2019_RD2060_243_32_20190311_00048.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.55	Rating **	M	Issue No.	33
LM End	2.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.277956 °	38.277928 °
				-121.712814 °	-121.712775 °
DWR ID	DWR_RD2060_03_f _ 2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and extends to the waterside toe.					
Site ID No:402					
Site Designation:LMA-229					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Small but deep vertical cut down to water.					

A photograph showing a riverbank with dense green vegetation and a body of water in the background. The foreground is filled with dry, light-colored grass and twigs. The water is a murky green color, and there are some floating plants or debris on its surface. The sky is not visible in this image.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable AWW : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 2060 Hastings

A photograph showing a dry, grassy field with a path or stream bed cutting through it, adjacent to a body of water. The grass is yellowish-brown, indicating dry conditions. The water is blue and calm. The sky is clear and blue. A date stamp "2005-11-28 10:07" is visible in the bottom right corner.Page 30 of 45

Reclamation District No. 2060 Hastings

Page 32 of 45

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.64	Rating **	M	Issue No.	35 (cont)	
LM End	2.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.277106 °	38.277078 °	
				-121.711489 °	-121.711447 °	
DWR ID	DWR_RD2060_03_f _ 2017_35					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 1/4 of the way down the slope and results in sloughing into the waterside toe.						
Site ID No:404						
Site Designation:LMA-231						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Small erosion and sloughing adjacent to revetted slope.						

Photo 3 of 3 : SP_2019_RD2060_243_35_20190311_00057.jpg



LM Start	2.69	Rating **	A/W	Issue No.	36
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.276608 °	38.276133 °
				-121.710811 °	-121.710394 °
DWR ID	DWR_RD2060_03_f_2017_36				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing commences approximately halfway down the slope and extends to the waterside toe.					
Site ID No:405					
Site Designation:LMA-232					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Vertical cut at highwater mark.					

Photo 1 of 3 : SP_2019_RD2060_243_36_20190311_00058.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	2.69	Rating **	A/W	Issue No.	36 (cont)
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.276608 °	38.276133 °	
			-121.710811 °	-121.710394 °	
DWR ID	DWR_RD2060_03_f_2017_36				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Sloughing commences approximately halfway down the slope and extends to the waterside toe.

Site ID No: 405

Site Designation: LMA-232

Repair Type: Erosion

Rating: Serious

Field Date: 7/18/2017

Notes: Vertical cut at highwater mark.

LM Start	2.69	Rating **	A/W	Issue No.	36 (cont)
LM End	2.73	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_243_36_20190311_00059.jpg



Photo 3 of 3 : SP_2019_RD2060_243_36_20190311_00060.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.24	Rating **	M	Issue No.	37
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.270231 °	38.270203 °
				-121.705897 °	-121.705856 °
DWR ID	DWR_RD2060_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.					
Site ID No:406					
Site Designation:LMA-233					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion is next to a pumphouse and slope is protected withrip rap.					

Photo 1 of 3 : SP_2019_RD2060_243_37_20190311_00061.jpg



Photo 2 of 3 : SP_2019_RD2060_243_37_20190311_00062.jpg



LM Start	3.24	Rating **	M	Issue No.	37 (cont)
LM End	3.24	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

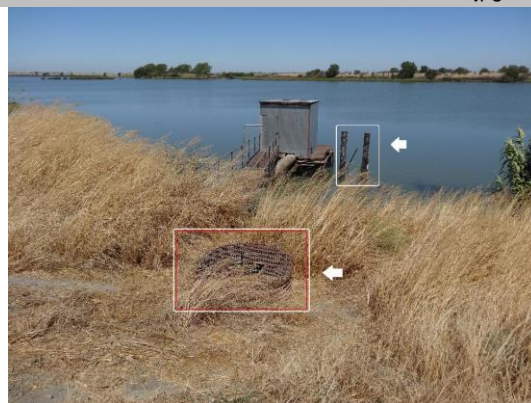
LM Start	3.24	Rating **	M	Issue No.	37 (cont)	
LM End	3.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.270231 °	38.270203 °	
				-121.705897 °	-121.705856 °	
DWR ID	DWR_RD2060_03_f_2017_37					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.						
Site ID No:406						
Site Designation:LMA-233						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion is next to a pumphouse and slope is protected withrip rap.						

Photo 3 of 3 : SP_2019_RD2060_243_37_20190311_00063.jpg



LM Start	3.24	Rating **	M	Issue No.	74
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270151 °	38.270151 °
				-121.705782 °	-121.705782 °
DWR ID	22064				
Comment Code					
Inspector Comment					
FS_ID:18723					
DS_ID:22064					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Only a CMP riser was found on WS.					
FIELD_STRUCT_DESC: 36-inch asbestos bonded steel irrigation					
discharge pipe through the levee, 15 feet below the crown, not found.					
Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS)					
slope, found. Pump in pump house on a pile structure in the stream, not					
found. Service pole and anchor on the landside (LS) slope, not found.					
FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_SP_2019_18723_31303.jpg



WS view: slide gate in CMP riser (bottom- marked) and may be abandoned pile for pump support (marked- right).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.24	Rating **	M	Issue No.	74 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.270151 °	38.270151 °	
				-121.705782 °	-121.705782 °	
DWR ID	22064					
Comment Code						
Inspector Comment						
FS_ID:18723						
DS_ID:22064						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Only a CMP riser was found on WS.						
FIELD_STRUCT_DESC: 36-inch asbestos bonded steel irrigation						
discharge pipe through the levee, 15 feet below the crown, not found.						
Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS)						
slope, found. Pump in pump house on a pile structure in the stream, not						
found. Service pole and anchor on the landside (LS) slope, not found.						
FS Date: 8/15/2013						

Photo 2 of 3 : UCIP_SP_2019_18723_31302.jpg



WS view: closer view of slide gate in CMP riser.

LM Start	3.24	Rating **	M	Issue No.	74 (cont)
LM End	3.24	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_18723_31301.jpg



WS view: slide gate and air vent inside CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

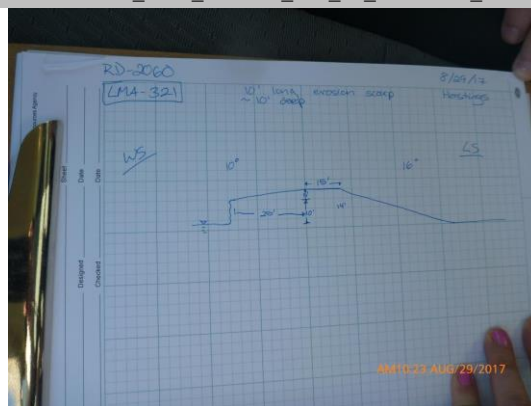
Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.66	Rating **	M	Issue No.	39	
LM End	3.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.265742 °	38.265342 °	
				-121.700522 °	-121.699881 °	
DWR ID	DWR_RD2060_03_f_2017_39					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:MBK Delta Erosion Sites_6-29-2017						
Site ID No:483						
Site Designation:LMA-321						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/29/2017						
Notes:						

Photo 1 of 1 : SP_2019_RD2060_243_39_20190311_00066.jpg



LM Start	3.78	Rating **	A/W	Issue No.	4
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.264585 °	38.260593 °
				-121.698868 °	-121.696403 °
DWR ID	DWR_RD2060_03_f_2018_4				
Comment Code					
Inspector Comment					
2017 Site ID: CHS 21.1 R					
Status: Eroding					
2017 Field Notes: Significant toe erosion within last year.					
Site History: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013 - Site extended downstream to include new erosion pockets. 2016 - New rock in one of the erosion spots.					

Photo 1 of 1 : SP_2019_RD2060_243_4_20190311_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.82	Rating **	A/W	Issue No.	40
LM End	3.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.264006 °	38.262364 °
				-121.698811 °	-121.698103 °
DWR ID	DWR_RD2060_03_f _ 2017_40				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site					
Site ID No:410					
Site Designation:LMA-237					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: This site is combined with LMA-234. There is minor toe erosion along whole 631 lf, but there is a 20' wide deep erosion at 38.26347, -121.69859. That is the only location that is serious and is likely due toa collapsed beaver den.					

Photo 1 of 3 : SP_2019_RD2060_243_40_20190311_00067.jpg



LM Start	3.82	Rating **	A/W	Issue No.	40 (cont)
LM End	3.94	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2019_RD2060_243_40_20190311_00068.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.82	Rating **	A/W	Issue No.	40 (cont)	
LM End	3.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.264006 °		38.262364 °
				-121.698811 °		-121.698103 °
DWR ID	DWR_RD2060_03_f _ 2017_40					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site						
Site ID No:410						
Site Designation:LMA-237						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: This site is combined with LMA-234. There is minor toe erosion along whole 631 lf, but there is a 20' wide deep erosion at 38.26347, -121.69859. That is the only location that is serious and is likely due toa collapsed beaver den.						

Photo 3 of 3 : SP_2019_RD2060_243_40_20190311_00069.jpg



LM Start	3.96	Rating **	A/W	Issue No.	41
LM End	4.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262114 °	38.261583 °
				-121.697978 °	-121.697647 °
DWR ID	DWR_RD2060_03_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:411					
Site Designation:LMA-238					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: This site includes LMA-235. Wide erosion looks like several small sited merged. Heavy veg indicates slow erosion.					

Photo 1 of 3 : SP_2019_RD2060_243_41_20190311_00070.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	3.96	Rating **	A/W	Issue No.	41 (cont)
LM End	4.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262114 °	38.261583 °
				-121.697978 °	-121.697647 °
DWR ID	DWR_RD2060_03_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:411					
Site Designation:LMA-238					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: This site includes LMA-235. Wide erosion looks like several small sited merged. Heavy veg indicates slow erosion.					

Photo 2 of 3 : SP_2019_RD2060_243_41_20190311_00071.jpg



Photo 3 of 3 : SP_2019_RD2060_243_41_20190311_00072.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	4.06	Rating **	A/W	Issue No.	42
LM End	4.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260789 °	38.260644 °
				-121.696964 °	-121.696828 °
DWR ID	DWR_RD2060_03_f _ 2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.					
Site ID No:412					
Site Designation:LMA-239					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Small erosion. Appears that site grows slowly with each high water. The center of the eosion is a deep cut that extends below rhe waterline. Possible beaver den collapse.					

Photo 1 of 3 : SP_2019_RD2060_243_42_20190311_00073.jpg



Photo 2 of 3 : SP_2019_RD2060_243_42_20190311_00074.jpg



LM Start	4.06	Rating **	A/W	Issue No.	42 (cont)
LM End	4.08	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/09/2019 04/09/2019	David Julian

LM Start	4.06	Rating **	A/W	Issue No.	42 (cont)
LM End	4.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260789 °	38.260644 °
				-121.696964 °	-121.696828 °
DWR ID	DWR_RD2060_03_f _ 2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.					
Site ID No:412					
Site Designation:LMA-239					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Small erosion. Appears that site grows slowly with each high water. The center of the eosion is a deep cut that extends below rhe waterline. Possible beaver den collapse.					

Photo 3 of 3 : SP_2019_RD2060_243_42_20190311_00075.jpg



LM Start	4.06	Rating **	A/W	Issue No.	43
LM End	4.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260789 °	38.260644 °
				-121.696964 °	-121.696828 °
DWR ID	DWR_RD2060_03_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:409					
Site Designation:LMA-236					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: 3' cut to slope down to water, with a 50' deep cut. Heavy veg suggests slow progression of erosion.					

Photo 1 of 3 : SP_2019_RD2060_243_43_20190311_00076.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable AW : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement